

September 26, 2005

STUDOR INC.
JACK BEUSCHEL
11256 47TH ST.N
CLEARWATER FL 33762

Re: Description: AIR ADMITTANCE VALVES, ALTERNATE PLUMBING SYSTEM
Manufacturer: STUDOR INC.
Product Name: MINI-VENT
Model Number(s): FITS 1-1/2" AND 2" PIPE
Product File No: 20050687

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an alternate approval to s. Comm 82.31 (3) (a) based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of January 2011.

This approval supersedes the approval issued on February 22, 2005 under product file number 20050091.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20050091.

This alternate approval is contingent upon compliance with the following stipulation(s):

- This product must be installed in accordance with the manufacturer's printed instructions, system approval, plan approval, and Wis. Adm. Code. If there is a conflict between the manufacturer's instructions and the plan approval, system approval or Wis. Adm. Code, the Wis. Adm. Code, plan approval and system approval will take precedence.
- This product must hold a pressure equal to one-inch water column for five minutes after the product is installed or immediately prior to installation.
- This product must be installed in the vertical position (plus or minus 15 degrees from plumb).
- The vent system being served by this product may have horizontal offsets located less than 36 inches above the floor on which the fixtures are installed providing the vent does not connect to another vent.
- Branches which have fixtures served by this product must comply with all of the following.
 - When connected to a stack which has four (4) or more branch intervals above the branch connection, the branch must be provided with a relief vent located between most downstream fixture and the stack, and
 - The branch must not connect to any horizontal drain within 20 pipe diameters downstream of the base of a two (2) inch or larger drain stack.

- This product must be located and the system sized in accordance with Table 1.

Studor Mini-Vent Table 1			
Maximum Drainage Fixture Units Served (see note a)	Maximum Developed Distance of Vent to Connection of Air Admittance Valve		
	1-1/4" Vent Diameter	1-1/2" Vent Diameter	2" Vent Diameter
1	35	NL (see note b)	NL
3	28	140	NL
6	NP (see note c)	100	200
20	NP	60 (see note d)	110
160	NP	NP	25

Notes: a: Drainage Fixture Units based on ch. Comm 82, Wis. Adm. Code
b: NL means no limit
c: NP means not permitted
d: Not more than two (2) water closets or similar type fixtures of four (4) or more drainage fixture units.

- This product may not be located in any of the following areas.
 - An enclosed stairwell,
 - an area subject to positive pressure conditions for more than 12 continuous hours,
 - an area utilized as supply or return air plenum, or
 - a pit, vault or depression which is below the adjacent grade or floor level.
- This product may be located:
 - inside a building,
 - under the overhang of a building,
 - less than 10 feet from an air intake,
 - less than 5 feet from a power exhaust vent,
 - less than 10 feet horizontally from and less than 2 feet above roof scuttles, doors, and openable windows,
 - less than 7 feet above a roof or the surrounding grade of an earth covered roof, however not less than 8 inches, and
 - less than 10 feet horizontally from a lot line.
- This product may serve a pumped-discharge type clothes washer standpipe when:
 - The standpipe and trap is at least 2" inch in diameter,
 - The fixture drain between the trap and point of vent is at least 2" in diameter, and
 - The fixture drain downstream of the point of vent is at least 3" in diameter.
- This product may not serve as a vent termination point for any of the following.
 - Vents installed to relieve positive pressures,
 - vents serving chemical waste system,
 - vents serving POWTS holding tank or, POWTS treatment tank,
 - a stack vent serving two (2) or more branch intervals,
 - a vent stack that is required in accordance with s. Comm 82.31 (4) (a), or
 - a vent serving a sump.

- This product must be located:
 - a minimum of 4 inches above the top of the horizontal pipe being served (see note a),
 - no more than 20 inches below the flood rim of any fixture served by this product (see note a),
 - at least 6 inches above insulation materials (see note a),
 - in an accessible area,
 - within a ventilated space that allows air to enter the product and has an opening with an area of at least one-inch to the building air or outside air, and
 - in accordance with s. Comm 82.31 (9), Wis. Adm. Code.

Note a: The distance is measured from termination of the vent pipe to the point noted in the stipulation.

- This product may only serve as a termination point for a:
 - branch vent,
 - circuit vent,
 - common vent,
 - individual vent, or
 - wet vent.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
(608) 267-1401 Phone
(608) 267-9566 Fax
glen.schlueter@wi.gov Email

GWS:gws